

REMARKS

Claims 16-21 are added so that claims 1-21 are now pending in the patent application. Dependent claims 10-12 are indicated to be allowable and re-written in independent form in claims 20-22.

I. THE CLAIM TO PRIORITY

The claim to priority on page 1 of the patent application is amended in view of the points raised in paragraph 1 of the Office Action.

II. THE DRAWING OBJECTIONS

In paragraphs 3-10 of the Office Action, the drawing are objected to for various informalities.

The drawing and/or the specification have been amended in view of the points raised in paragraphs 3-10. Enclosed are amendments to Figures 10, 15, 27 and 52(a) with red ink markings and associated replacement pages marked accordingly.

In view of these amendments, reconsideration and withdrawal of the drawing objection are respectfully requested.

III. THE SPECIFICATION

In paragraphs 11-12 of the Office Action, the specification is objected to for various informalities.

The drawing and/or the specification have been amended in view of the points raised in paragraphs 11-12.

In view of these amendments, reconsideration and withdrawal of the objection to the specification are respectfully requested.

V. THE CLAIM OBJECTIONS

In paragraph 13 of the Office Action, the claims are objected to for various informalities.

The claims have been amended in view of the points raised in paragraph 13.

In view of these amendments, reconsideration and withdrawal of the objection to the claims are respectfully requested.

V. THE ANTICIPATION REJECTION - Atkins et al.

In paragraphs 14-15 of the Office Action, claims 1-4 and 7 are rejected as being anticipated by Atkins et al.

Claim 1 is amended to clarify that the method of manufacturing an optical identification element comprises steps of winding at least two or more wraps of a substrate around a device to form at least one grating writing section; writing at least one grating into each wrap of the substrate disposed in the at least one grating writing section; and splitting the substrate disposed in the at least one grating writing section to form a multiplicity of optical identification elements.

To the extent that the anticipation rejection might be applied to claim 1, as amended, it is respectfully traversed because Atkins et al. does not teach or suggest a method of manufacturing an optical identification element featuring writing in a single

exposure at least one grating into multiple wraps of a substrate wound around a device to form at least one grating writing section, as claimed herein.

In contrast, Atkins et al. writes a grating in a single strand of fiber extending between two spools 56, 57 as shown in Figure 4. Atkins et al. does not suggest to write a grating on the fiber wrapped on either spool 56, 57.

The remaining rejected claims depend directly or indirectly from independent claims 2-4 and 7, contain all the limitations thereof, and are deemed patentable over Atkins et al. for all the reasons discussed above.

VI. THE OBVIOUSNESS REJECTION - Terao et al. in view of Atkins et al.

In paragraphs 16-17 of the Office Action, claims 1-7 and 15 are rejected as being obvious over Terao et al. in view of Atkins et al.

To the extent that the anticipation rejection might be applied to claim 1, as amended, and consistent with that discussed above, it is respectfully traversed because Terao et al. does not teach or suggest a method of manufacturing an optical identification element featuring writing in a single exposure at least one grating into multiple wraps of a substrate wound around a device to form at least one grating writing section, as claimed herein.

In Terao et al., a single exposure is not used to write at least one grating into multiple wraps of a substrate wound around a device to form at least one grating writing section, as claimed herein. In contrast, the diffraction beam 42 (see, e.g. Figures 1 and 8) follows the spiral path of the fiber 20 on the fiber holder 10.

Atkins et al. does not make up for this deficiency for the reasons discussed above.

The remaining rejected claims 2-7 and 15 depend directly or indirectly from claims contain all the limitations thereof, and are deemed patentable over Terao et al. in view of Atkins et al. for all the reasons discussed above.

VII. THE REMAINING OBVIOUSNESS REJECTIONS

In paragraphs 18-20 of the Office Action, the remaining claims 8-9, 13 and 14 are rejected as being obvious over Terao et al. in view of Atkins et al. alone or in combination with Wakami et al. or Othonos et al. However, it is respectfully submitted that these claims depend directly or indirectly from claim 1, contain all the limitations thereof, and are deemed patentable over the cited prior art for all the reasons discussed above, since the additional cited references do not make up for the deficiency in the prior art discussed above.

VIII. CONCLUSION

Reconsideration and early allowance of the claims is earnestly solicited.

If the Examiner has any questions regarding this Amendment, Applicant's counsel can be reached at 203-626-3331 (direct dial) between the hours of 8:00 a.m. and 6:00 p.m. or by E-mail at gdepardo@cyvera.com.

Respectfully submitted,



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February 14, 2005
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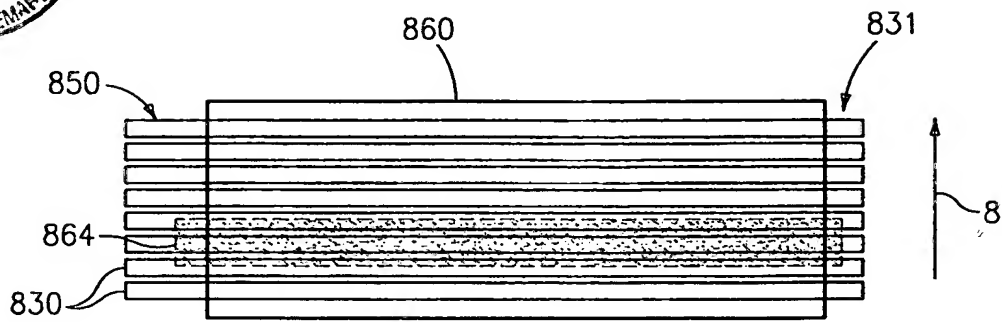


FIG. 10

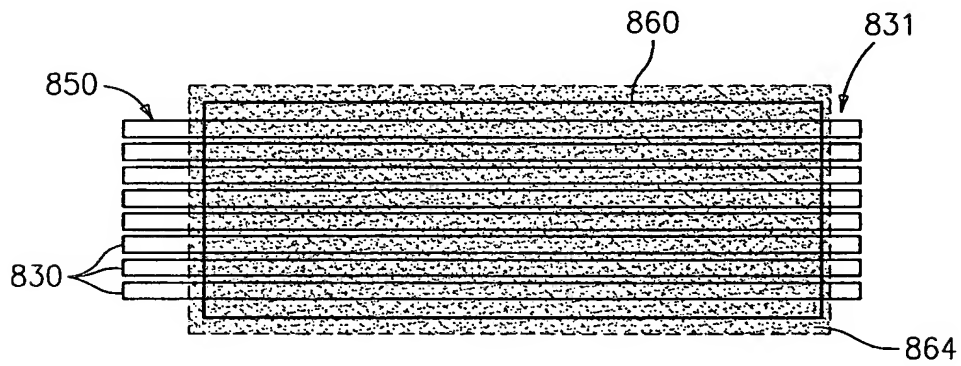


FIG. 11

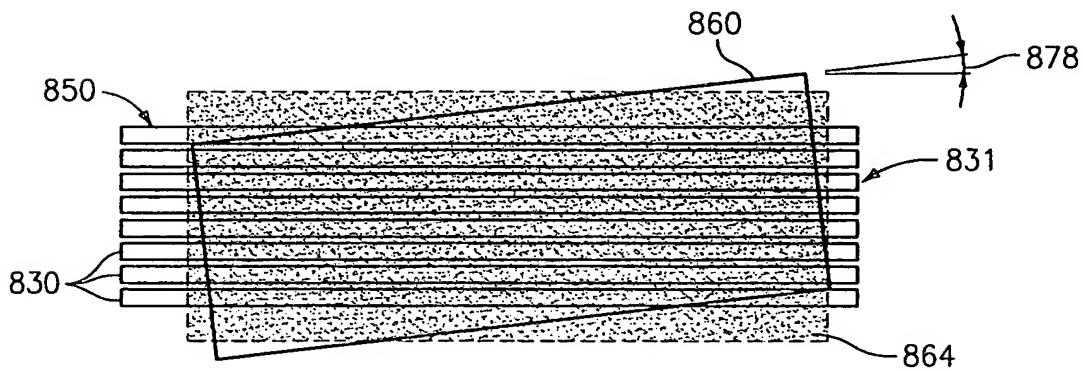


FIG. 12

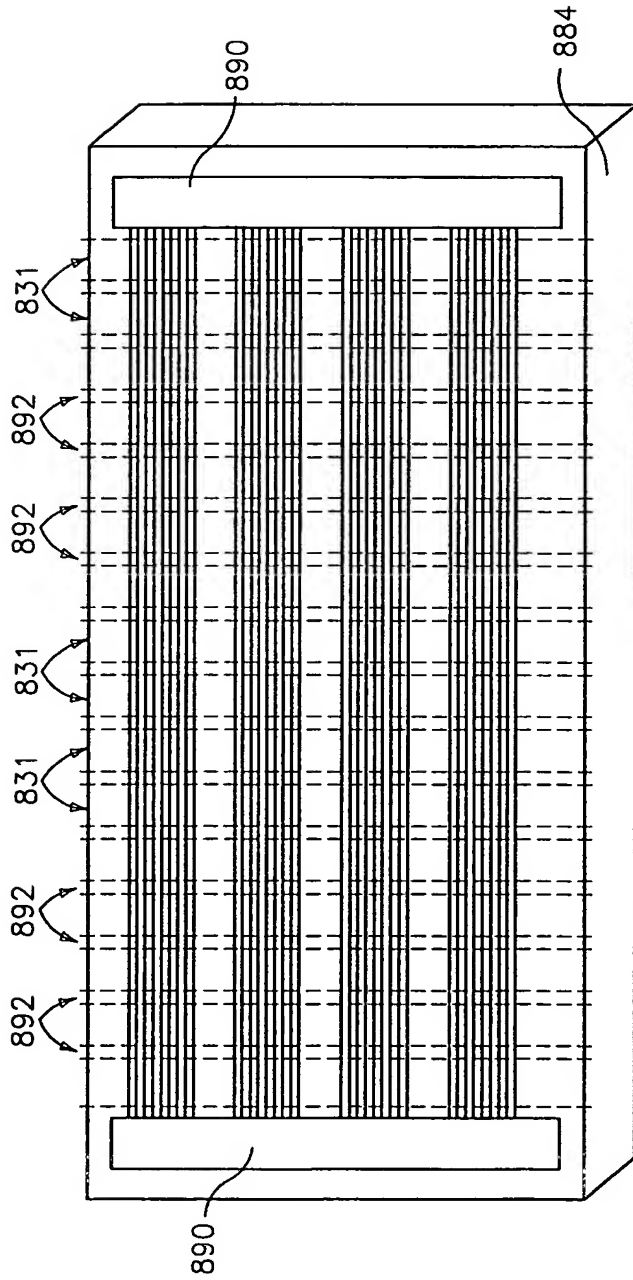


FIG. 13

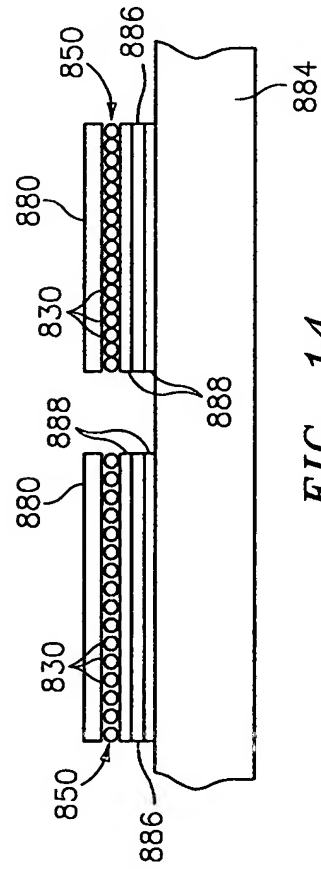


FIG. 14

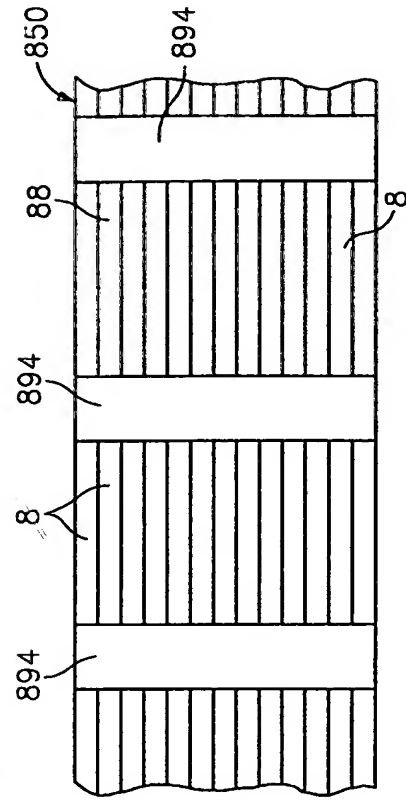
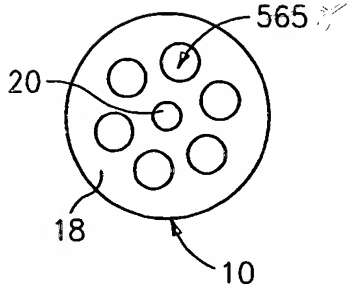
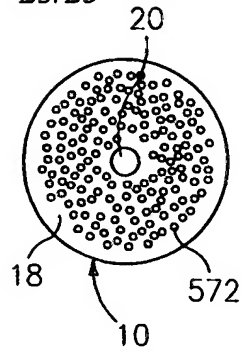


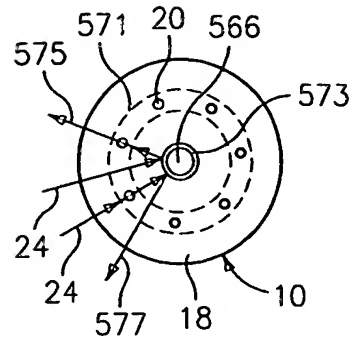
FIG. 15



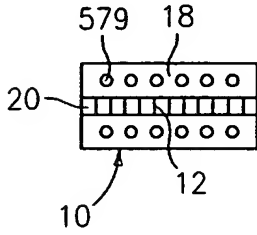
Illustration(a)



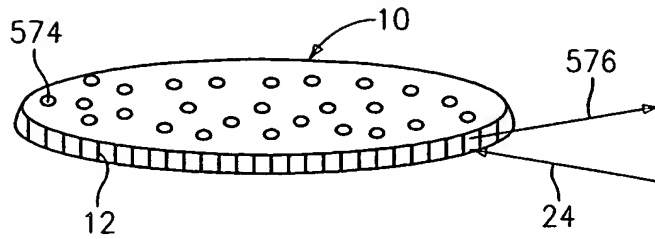
Illustration(b)



Illustration(c)

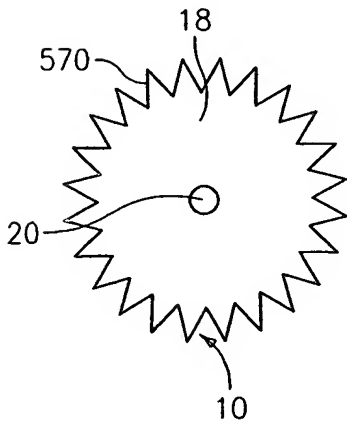


Illustration(d)

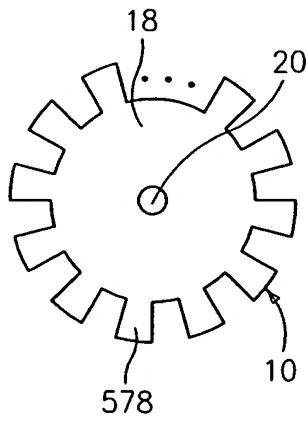


Illustration(e)

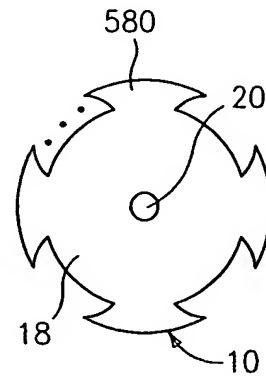
FIG. 50



Illustration(a)

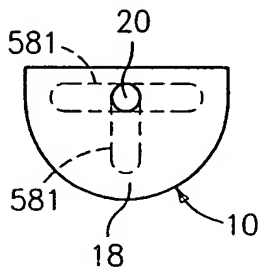


Illustration(b)

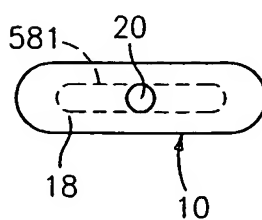


Illustration(c)

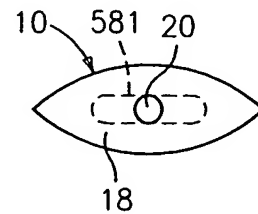
FIG. 51



Illustration(a)



Illustration(b)



Illustration(c)

FIG. 52